## AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions and listings of claims in the application. Please amend claims 1, 47, 51, and 56, as follows:

Claim 1 (Currently Amended): A composition comprising kaolin having a shape factor ranging from [[about]] 32 to 49, wherein at least about 85% by weight of the kaolin has an esd of less than about 1 µm, the amount of the kaolin having an esd of less than about 0.25 µm ranges from 35% to about 60% by weight.

Claim 2 (Canceled).

Claim 3 (Previously Pending): The composition according to claim 1, wherein the kaolin has a Hercules viscosity of less than about 4000 rpm at 18 dynes at 63% solids when measured using the "A" bob.

Claim 4 (Canceled).

Claim 5 (Original): The composition according to claim 1, wherein at least about 94% by weight of the kaolin has an esd of less than about 2 µm.

Claim 6 (Original): The composition according to claim 1, wherein at least about 95% by weight of the kaolin has an esd of less than about 2 µm.

Claim 7 (Original): The composition according to claim 1, wherein at least about 96% by weight of the kaolin has an esd of less than about 2 µm.

Claim 8 (Original): The composition according to claim 1, wherein at least about 98% by weight of the kaolin has an esd of less than about 2 µm.

Claim 9 (Original): The composition according to claim 1, wherein the amount of the

09/15/2009

U.S. Application No. 10/531,257 Inventors: Robert J. PRUETT et al.

Attorney Docket No. 07810.0119-00
Response to final Office Action issued July 6, 2009

kaolin having an esd of less than about 2  $\mu m$  ranges from about 94% to about 99% by weight.

Claim 10 (Canceled).

Claim 11 (Original): The composition according to claim 1, wherein at least about 88% by weight of the kaolin has an esd of less than about 1 µm.

Claim 12 (Original): The composition according to claim 1, wherein at least about 92% by weight of the kaolin has an esd of less than about 1 µm.

Claim 13-15 (Canceled).

Claim 16 (Previously Presented): The composition according to claim 1, wherein the kaolin has a shape factor ranging from about 35 to about 49.

Claim 17 (Previously Presented): The composition according to claim 1, wherein the kaolin has a shape factor ranging from about 40 to 49.

Claim 18 (Previously Presented): The composition according to claim 1, wherein the kaolin has a shape factor ranging from about 35 to about 40.

Claim 19 (Previously Presented): The composition according to claim 1, wherein the amount of the kaolin having an esd of less than about  $0.25~\mu m$  ranges from 35% to about 50% by weight.

Claim 20 (Previously Presented): The composition according to claim 1, wherein the kaolin has a shape factor ranging from about 45 to about 49, at least about 96% by weight of the kaolin has an esd of less than about 2 µm, at least about 85% by weight of the kaolin has an esd of less than about 1 µm, and the amount of the kaolin having an

DO NOT ENTER: /S.A./ 09/15/2009

U.S. Application No. 10/531,257 Inventors: Robert J. PRUETT et al. Attorney Docket No. 07810.0119-00 Response to final Office Action issued July 6, 2009

esd of less than about 0.25 µm ranges from 35% to about 45% by weight.

Claim 21 (Previously Presented): A method of refining kaolin, comprising:

(a) providing a degritted kaolin slurry comprising a sedimentary kaolin having a

particle size distribution such that at least about 70% by weight of the kaolin has an esd

of less than about 2 μm;

(b) classifying said kaolin slurry to obtain a kaolin having a shape factor ranging

from about 20 to 49, wherein at least about 94% by weight of the kaolin has an esd of

less than about 2 µm.

Claim 22 (Original): The method according to claim 21 wherein the degritted kaolin

slurry comprises a substantially stackless sedimentary kaolin.

Claim 23 (Original): The method according to claim 21, wherein the kaolin has a

Hercules viscosity of less than about 4000 rpm at 18 dynes at 63% solids when

measured using the "A" bob.

Claims 24 and 25 (Canceled).

Claim 26 (Original): The method according to claim 21, wherein the amount of the

classified kaolin having an esd of less than about 0.25 µm ranges from about 25% to

about 60% by weight.

Claim 27 (Original): The method according to claim 21, wherein the degritted kaolin

slurry provided in (a) comprises at least about 80% by weight of the kaolin having an

esd of less than about 2 µm.

Claim 28 (Original): The method according to claim 21, wherein the degritted kaolin

slurry provided in (a) has a shape factor of at least about 10.

U.S. Application No. 10/531,257 Inventors: Robert J. PRUETT et al. Attorney Docket No. 07810.0119-00 Response to final Office Action issued July 6, 2009

Claim 29 (Original): The method according to claim 21, further comprising a wet media arinding step prior to (b).

Claim 30 (Original): The method according to claim 29, wherein the wet media grinding consumes in the range of 0 to about 35 Kw-hr/ton of energy.

Claim 31 (Original): The method according to claim 29, wherein the wet media grinding consumes in the range of about 35 to about 200 Kw-hr/ton of energy.

Claim 32 (Original): The method according to claim 21, further comprising subjecting the degritted kaolin slurry to a beneficiation step selected from: selective flocculation, ozone treatment, flotation, magnetic separation, leaching, or any combination thereof.

Claim 33 (Original): The method according to claim 21, further comprising subjecting the classified kaolin to a beneficiation step selected from: selective flocculation, ozone treatment, flotation, magnetic separation, leaching, or any combination thereof.

Claim 34 (Previously Presented): The method according to claim 21, wherein the classifying in (b) comprises removing a portion of the fines.

Claim 35 (Original): The method according to claim 21, wherein the degritted kaolin slurry provided in (a) has a shape factor of at least about 15 and at least about 80% by weight of the kaolin in the degritted kaolin slurry has an esd of less than about 2 µm.

Claim 36 (Original): The method according to claim 34, wherein after removing the portion of fines, the particle size distribution ranges from about 25% to about 60% by weight less than about 0.25 um.

Claim 37 (Original): The method according to claim 34, wherein after removing the portion of fines, the particle size distribution is about 40% by weight less than about 0.25 µm.

Claim 38 (Previously Presented): A method of refining kaolin, comprising:

- (a) providing a degritted kaolin slurry having a shape factor of at least about 10 and including at least about 80% by weight particles having an esd of less than about 2  $\mu$ m;
- (b) wet media grinding the degritted kaolin slurry consuming in the range of from about 10 to about 200 Kw-hr/ton of energy; and
- (c) classifying the slurry to a fine fraction wherein from about 96% to about 98% by weight of the classified kaolin has an esd of about 2  $\mu$ m and the classified kaolin has a shape factor of less than or equal to 49.

Claim 39 (Canceled).

Claim 40 (Original): The method according to claim 38, wherein the degritted kaolin slurry provided in (a) has a shape factor of at least about 20.

Claim 41 (Original): The method according to claim 38, wherein the degritted kaolin slurry provided in (a) has a shape factor of at least about 30.

Claim 42 (Original): The method according to claim 38, wherein the degritted kaolin slurry provided in (a) has a shape factor of at least about 40.

Claim 43 (Previously Pending): The method according to claim 38 , wherein the amount of the kaolin in part (c) having an esd of less than about 0.25  $\mu$ m ranges from about 25% to about 60% by weight.

Claim 44 (Original): The method according to claim 38, further comprising spray-drying

09/15/2009

U.S. Application No. 10/531,257 Inventors: Robert J. PRUETT et al. Attorney Docket No. 07810.0119-00

Response to final Office Action issued July 6, 2009

the fine fraction

Claim 45 (Original): The method according to claim 38, wherein the kaolin slurry is subjected to a beneficiation step selected from: selective flocculation, ozone treatment, flotation, magnetic separation, leaching, or any combination thereof.

Claim 46 (Original): The method according to claim 38, further comprising leaching the

kaolin fine fraction and filtering and drying the leached kaolin fine fraction.

Claim 47 (Currently Amended): A coated paper comprising:

a fibrous substrate; and

a coating on the substrate comprising kaolin having a shape factor of at least

[[about]] 32, wherein at least about 85% by weight of the kaolin has an esd of less than about 1 µm, the amount of the kaolin having an esd of less than about 0.25 µm ranges

from about 25% to about 60% by weight.

Claim 48 (Original): The paper according to claim 47, wherein at least about 94% by

weight of the kaolin has an esd of less than about 2 µm.

Claim 49 (Previously Presented): The paper according to claim 47, wherein the kaolin

has a Hercules viscosity of less than 4000 rpm at 18 dynes at 63% solids when

measured using the "A" bob.

Claim 50 (Original): The paper according to claim 47, wherein the coating further

comprises calcium carbonate.

Claim 51 (Currently Amended): A method of making a coated paper comprising: coating

a fibrous substrate with a paper coating composition comprising kaolin having a shape factor of at least [[about]] 32, at least 85% by weight of the kaolin has an esd of less

than 1 µm, the amount of the kaolin having an esd of less than about 0.25 µm ranges

DO NOT ENTER: /S.A./ 09/15/2009

U.S. Application No. 10/531,257 Inventors: Robert J. PRUETT et al. Attorney Docket No. 07810.0119-00

Response to final Office Action issued July 6, 2009

from about 25% to about 60% by weight.

Claim 52 (Original): The method of claim 51, wherein at least about 94% by weight of

the kaolin has an esd of less than about 2 µm.

Claim 53 (Previously Presented): The method of claim 51, wherein the kaolin has a

Hercules viscosity of less than 4000 rpm at 18 dynes at 63% solids when measured

using the "A" bob.

Claim 54 (Canceled).

Claim 55 (Previously Pending): A method of making a kaolin slurry, comprising:

dewatering degritted kaolin with an evaporator, wherein the kaolin has a shape factor

ranging from about 25 to 49, and at least about 85% by weight of the kaolin has an esd

less than about 2 µm.

Claim 56 (Currently Amended): A coated paper comprising:

a fibrous substrate: and

a coating on the substrate comprising kaolin having a shape factor of at least

[[about]] 32, at least about 85% by weight of the kaolin having an esd of less than about

1  $\mu m$  and the amount of the kaolin having an esd of less than about 0.25  $\mu m$  ranges

from about 25% to about 60% by weight,

wherein gloss of the coated paper is greater than about 45 TAPPI units.